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### NOTICE OF ALLOWANCE AND FEE(S) DUE

26646

7590

04/09/2008

KENYON & KENYON LLP ONE BROADWAY NEW YORK, NY 10004 EXAMINER

SUCH, MATTHEW W

ART UNIT PAPER NUMBER

2891

DATE MAILED: 04/09/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/824,288	04/13/2004	Max Shtein	12992/90501	6049

TITLE OF INVENTION: METHOD OF FABRICATING AN OPTOELECTRONIC DEVICE HAVING A BULK HETEROJUNCTION

l	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/09/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

#### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/824,288 04/13/2004		•	Max Shtein		12992/90501		6049
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nonprovisional	NO	\$1440	\$300	\$0		\$1740	07/09/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
SUCH, MA	TTHEW W	2891	438-082000	_			
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol>			2. For printing on the (1) the names of up or agents OR, alternate (2) the name of a single registered attorney or 2 registered patent att listed, no name will b	to 3 registered pater tively, gle firm (having as a agent) and the nam corneys or agents. If	nt attorn n memb nes of u	per a 2 p to	
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5. Change in Entity Stat	<b>tus</b> (from status indicated s SMALL ENTITY statu	· ·	☐ b. Applicant is no lo	nger claiming SMA	II EN'	TITY status See 37 C	ER + 27(g)(2)
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KENYON & KE	ENYON LLP	SUCH, MATTHEW W					
ONE BROADWA	_	ART UNIT	PAPER NUMBER				
NEW YORK, NY	10004		2891				
			DATE MAILED: 04/09/200	8			

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 243 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 243 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability    10/824,288	cation. If not included
Notice of Allowability  Examiner  Matthew W. Such  The MAILING DATE of this communication appears on the cover sheet with the core All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this applination previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication woth Notice of Allowability IS NOT A GRANT OF PATENT RIGHTS. This application is subject to void the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1. ☐ This communication is responsive to Applicant reply filed 10 December 2007.  2. ☐ The allowed claim(s) is/are 1-19 and 21-34.  3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No. ☐ 3. ☐ Copies of the certified copies of the priority documents have been received in this national Bureau (PCT Rule 17.2(a)).  * Certified copies not received: ☐ .  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply conoted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is prevailed by the Notice of Draftsperson's Patent Drawing Review (PTO-94-1) ☐ hereto or 2) ☐ to Paper No./Mail Date	Art Unit  2891  respondence address cation. If not included
The MAILING DATE of this communication appears on the cover sheet with the cor.  All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this applinere with (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication wontice of AllowabliLITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to voof the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1. This communication is responsive to Applicant reply filed 10 December 2007.  2. The allowed claim(s) is/are 1-19 and 21-34.  3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some* c) None of the:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this na International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply conoted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration concerns and conce	2891  respondence address cation. If not included
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Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawing each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL multiple attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL	AMENDMENT or NOTICE OF on is deficient.  48) attached ice action of s in the front (not the back) of cust be submitted. Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material  9. ☐ Other  //Matthew W. Such/Examiner, Art Unit 2891	PTO-413),  ent/Comment

Application/Control Number: 10/824,288 Page 2

Art Unit: 2891

**EXAMINER'S AMENDMENT** 

1. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Kevin T. Godlewski (Reg. No. 47,598) on 1 April 2008.

2. The application has been amended as follows below.

Please amend claim 1 as follows:

Claim 1 (currently amended) A method of fabricating an optoelectronic device, comprising:

depositing a first layer over a first electrode by organic vapor phase deposition, wherein

the first layer comprises a first organic small molecule material;

depositing a second layer on the first layer such that the second layer is in physical

contact with the first layer, wherein the interface of the second layer on the first layer forms a

bulk heterojunction having an interpenetrating network of the first and second layers, the

interpenetrating network comprising regions having diameters between 1 to 5 times the exciton

diffusion length of the first organic small molecule material, and thereby being configured to

enable dissociation of excitons; and

depositing a second electrode over the second layer to form the optoelectronic device.

Art Unit: 2891

Please amend claim 17 as follows:

Claim 17 (currently amended) A method of fabricating an optoelectronic device, comprising:

depositing a first layer having protrusions over a first electrode, wherein the first layer comprises a first organic small molecule material; and then

depositing a second layer on the first layer such that the second layer is in physical contact with the first layer, wherein the interface of the second layer on the first layer forms a bulk heterojunction having an interpenetrating network of the first and second layers, the interpenetrating network comprising the protrusions, the protrusions having diameters between 1 to 5 times the exciton diffusion length of the first organic small molecule material, and thereby being configured to enable dissociation of excitons; and

depositing a second electrode over the second layer to form the optoelectronic device.

Please CANCEL claim 20.

Please amend claim 21 to depend from claim 17 as shown:

Claim 21 (currently amended) The method of claim [[20]]17, wherein the diameter of the protrusions are between 1.5 to 3 times the exciton diffusion length of the first organic small molecule material.

Please amend claim 33 as follows:

Claim 33 (currently amended) A method of forming a bulk heterojunction comprising:

depositing a first layer over a substrate by organic vapor phase deposition, wherein the first layer comprises a first organic small molecule material; and

depositing a second layer on the first layer such that the second layer is in physical contact with the first layer, wherein the interface of the second layer on the first layer forms a bulk heterojunction <u>having an interpenetrating network of the first and second layers, the interpenetrating network comprising regions having diameters between 1 to 5 times the exciton diffusion length of the first organic small molecule material, and thereby being configured to enable dissociation of excitons.</u>

Please amend claim 34 as follows:

Claim 34 (currently amended) A method of forming a bulk heterojunction comprising:

depositing a first layer having protrusions over a substrate, wherein the first layer comprises a first organic small molecule material; and then

depositing a second layer on the first layer such that the second layer is in physical contact with the first layer, wherein the interface of the second layer on the first layer forms a bulk heterojunction having an interpenetrating network of the first and second layers, the interpenetrating network comprising the protrusions, the protrusions having diameters between 1 to 5 times the exciton diffusion length of the first organic small molecule material, and thereby being configured to enable dissociation of excitons.

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Art Unit: 2891

3. The following is an examiner's statement of reasons for allowance: A search of the prior art does not disclose or reasonably suggest a method of forming a bulk heterojunction having an interpenetrating network of first and second layers, the interpenetrating network comprising protrusions or regions having diameters between 1 to 5 times the exciton diffusion length of the first organic small molecule material, and thereby being configured to enable dissociation of excitons within the context of the entire claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### **Contact Information**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew W. Such whose telephone number is (571) 272-8895. The examiner can normally be reached on Monday - Friday 9AM-5PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bradley W. Baumeister can be reached on (571) 272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2891

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Matthew W. Such/ Examiner Art Unit 2891

/M. W. S./
1 April 2008
/BRADLEY W BAUMEISTER/
Supervisory Patent Examiner, Art Unit 2891